

1                   **LIST OF CLAIMS / AMENDMENTS**

2                   **In the Claims**

3                   Claims 8-9, 33-36, and 71-75 were previously canceled.

4                   Please cancel claims 30-31, 42-43, and 66-67 without prejudice.

5                   Please amend claims 1, 15, 20, 25, 32, 37, 44, 61, and 68 as shown herein.

6                   Claims 1-7, 10-29, 32, 37-41, 44-65, and 68-70 are pending and are listed  
7 following:

- 8
- 9                   1.     **(currently amended)**     A network system, comprising:  
10                   a first device to maintain an original resource;  
11                   a second device to maintain a replica resource remotely from the first  
12 device, the replica resource being replicated from the original resource;  
13                   memory to store a cached descriptor corresponding to the original resource;  
14                   a security component to determine whether a request for the replica  
15 resource will pose a security risk to the second device where the request  
16 designates a resource locator, the security component further configured to  
17 determine whether the replica resource will pose a security risk to the second  
18 device upon receipt of a request for the replica resource, wherein the request  
19 designates a resource locator, the security component configured to:  
20                   being configured to determine whether the request will pose a  
21 security risk to the second device;  
22                   formulating formulate a descriptor corresponding to the replica  
23                   resource and comparing compare the formulated descriptor with the cached  
24                   descriptor; and

1                   if the formulated descriptor and the cached descriptor are not  
2 equivalent, formulating formulate a second descriptor corresponding to the  
3 original resource and comparing compare the formulated descriptor with  
4 the second descriptor.

5  
6       **2. (original)** A network system as recited in claim 1, wherein the  
7 security component determines that the replica resource is not a security risk if the  
8 formulated descriptor and the cached descriptor are equivalent.

9  
10      **3. (original)** A network system as recited in claim 1, wherein, if the  
11 formulated descriptor and the cached descriptor are not equivalent, and if the  
12 formulated descriptor and the second descriptor are equivalent, the security  
13 component determines that the replica resource is not a security risk.

14  
15      **4. (original)** A network system as recited in claim 1, wherein, if the  
16 formulated descriptor and the cached descriptor are not equivalent, and if the  
17 formulated descriptor and the second descriptor are equivalent, the security  
18 component determines that the replica resource is not a security risk, and the  
19 cached descriptor is replaced with the second descriptor.

1       **5. (original)** A network system as recited in claim 1, wherein, if the  
2 formulated descriptor and the cached descriptor are not equivalent, and if the  
3 formulated descriptor and the second descriptor are not equivalent, the security  
4 component determines that the replica resource is a security risk, and the replica  
5 resource is replaced with a copy of the original resource.

6  
7       **6. (original)** A network system as recited in claim 1, wherein, if the  
8 formulated descriptor and the cached descriptor are not equivalent, and if the  
9 formulated descriptor and the second descriptor are not equivalent, the security  
10 component determines that the replica resource is a security risk, the replica  
11 resource is replaced with a copy of the original resource, and the cached descriptor  
12 is replaced with the second descriptor.

13  
14       **7. (original)** A network system as recited in claim 1, wherein the  
15 security component formulates the cached descriptor when the original resource is  
16 replicated to create the replica resource.

17  
18       **8-9. (canceled)**

19  
20       **10. (previously presented)** A network system as recited in claim 1,  
21 wherein the request further designates the resource locator having a resource path,  
22 the resource path identifying a location of the replica resource, and wherein the  
23 security component determines that the request is not a security risk if the resource  
24 path does not exceed a maximum number of characters.  
25

1           **11. (previously presented)** A network system as recited in claim 1,  
2 wherein the request further designates the resource locator having a plurality of  
3 arguments, and wherein the security component determines that the request is not  
4 a security risk if individual arguments do not exceed a maximum number of  
5 characters, and if a total number of characters defining all of the arguments do not  
6 exceed a maximum number of characters.

7  
8           **12. (previously presented)** A network system as recited in claim 1,  
9 wherein the request further designates the resource locator having a resource  
10 identifier, and wherein the security component determines that the request is not a  
11 security risk if the resource identifier has a valid file extension.

12  
13           **13. (previously presented)** A network system as recited in claim 1,  
14 wherein:

15           the request further designates the resource locator having a resource path  
16 and one or more arguments, the resource path identifying a location of the replica  
17 resource and the resource path having a resource identifier;

18           the security component determines that the request is not a security risk if:

19               the resource path does not exceed a maximum number of characters;

20               individual arguments do not exceed a maximum number of  
21 characters;

22               a total number of characters defining all of the arguments do not  
23 exceed a maximum number of characters; and

24               the resource identifier has a valid file extension.

1           **14. (previously presented)** A network server, comprising:  
2           a server component to receive a request for a resource maintained on the  
3           network server and, in response to the request, implement security policies to  
4           prevent unauthorized access to the resource;  
5           a memory to store a cached descriptor corresponding to the resource; and  
6           a security component that is registerable with the server component during  
7           run-time to determine whether the request will pose a security risk to the network  
8           server, the request posing the security risk if the resource has been corrupted and if  
9           execution of the resource will compromise the network server, the security  
10           component being configured to:

11           formulate a replica descriptor corresponding to a replica of the  
12           resource and compare the replica descriptor with the cached descriptor; and  
13           if the replica descriptor and the cached descriptor are not equivalent,  
14           formulate a second descriptor corresponding to the resource and compare  
15           the replica descriptor with the second descriptor.

16  
17           **15. (currently amended)** A network server as recited in claim 14,  
18           wherein, if the security component determines that the request will pose a security  
19           risk to the network server, the security component redirects the request to indicate  
20           that the resource is not available.  
21  
22  
23  
24  
25

1           **16. (original)** A network server as recited in claim 14, wherein the  
2 request designates a resource locator having a resource path, the resource path  
3 identifying a location of the resource, and wherein the security component  
4 determines that the request is not a security risk if the resource path does not  
5 exceed a maximum number of characters.

6

7           **17. (original)** A network server as recited in claim 14, wherein the  
8 request designates a resource locator having a plurality of arguments, and wherein  
9 the security component determines that the request is not a security risk if  
10 individual arguments do not exceed a maximum number of characters, and if a  
11 total number of characters defining all of the arguments do not exceed a maximum  
12 number of characters.

13

14           **18. (original)** A network server as recited in claim 14, wherein the  
15 request designates a resource locator having a resource identifier, and wherein the  
16 security component determines that the request is not a security risk if the resource  
17 identifier has a valid file extension.

1           **19. (original)** A network server as recited in claim 14, wherein:  
2           the request designates a resource locator having a resource path and one or  
3           more arguments, the resource path identifying a location of the resource and the  
4           resource path having a resource identifier;  
5           the security component determines that the request is not a security risk if:  
6           the resource path does not exceed a maximum number of characters;  
7           individual arguments do not exceed a maximum number of  
8           characters;  
9           a total number of characters defining all of the arguments do not  
10          exceed a maximum number of characters; and  
11          the resource identifier has a valid file extension.

12  
13           **20. (currently amended)** A network server system, comprising:  
14           a server component in a network server to receive a request for a resource  
15          maintained on the network server, the request designating a resource locator  
16          having a resource path that identifies a location of the resource, and, in response to  
17          the request, implement security policies to prevent unauthorized access to the  
18          resource;  
19           a memory to store a cached descriptor corresponding to the resource; and  
20           a security component in a computing device remote to the network server  
21          and registerable with the server component during run-time to determine whether  
22          the resource will pose a security risk to the network server upon receipt of the  
23          request, the security component being configured to:

1 formulate a replica descriptor corresponding to a replica of the  
2 resource and compare the replica descriptor with the cached descriptor; and

3 if the replica descriptor and the cached descriptor are not equivalent,  
4 formulate a second descriptor corresponding to the original resource and  
5 compare the replica descriptor with the second descriptor.

6

7 **21. (previously presented)** A network server system as recited in  
8 claim 20, wherein, if the security component determines that the resource will  
9 pose a security risk, the security component redirects the request to indicate that  
10 the resource is not available.

11

12 **22. (previously presented)** A network server system as recited in  
13 claim 20, wherein the security component:

14 formulates a descriptor corresponding to the resource;  
15 compares the formulated descriptor with a cached descriptor, the cached  
16 descriptor corresponding to the resource and formulated when the resource is  
17 initially requested; and

18 determines that the resource is not a security risk if the formulated  
19 descriptor and the cached descriptor are equivalent.

1       **23. (previously presented)** A network server system as recited in  
2 claim 20, wherein the security component:

3              formulates a descriptor corresponding to the resource;  
4              compares the formulated descriptor with a cached descriptor, the cached  
5 descriptor corresponding to the resource and formulated when the resource is  
6 initially requested;  
7              if the formulated descriptor and the cached descriptor are not equivalent,  
8 formulates a second descriptor corresponding to an original resource maintained  
9 on a file server remotely located from the network server, the resource being  
10 replicated from the original resource;  
11             compares the formulated descriptor with the second descriptor; and  
12             determines that the resource is not a security risk if the formulated  
13 descriptor and the second descriptor are equivalent.

14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24  
25

1       **24. (previously presented)** A network server system as recited in  
2 claim 20, wherein the security component:

- 3              formulates a descriptor corresponding to the resource;  
4              compares the formulated descriptor with a cached descriptor, the cached  
5              descriptor corresponding to the resource and formulated when the resource is  
6              initially requested;  
7              if the formulated descriptor and the cached descriptor are not equivalent,  
8              formulates a second descriptor corresponding to an original resource maintained  
9              on a file server remotely located from the network server, the resource being  
10             replicated from the original resource;  
11             compares the formulated descriptor with the second descriptor;  
12             if the formulated descriptor and the second descriptor are not equivalent,  
13             initiates that the resource stored on the network server be replaced with a copy of  
14             the original resource maintained on the file server; and  
15             initiates that the cached descriptor be replaced with the second descriptor.

16

17

18

19

20

21

22

23

24

25

1           **25. (currently amended)**       A network server, comprising:  
2           an Internet server to receive a request for a resource maintained on the  
3           network server and, in response to the request, implement security policies to  
4           prevent unauthorized access to the resource;  
5           a security component that is registerable with the Internet server during  
6           run-time, the security component having:

7           a validation component to determine whether the request will pose a  
8           security risk to the network server by determining if a total number of  
9           characters defining all of the arguments of the request exceeds a maximum  
10          number of characters; and

11          an integrity verification component to:

12           determine whether the resource will pose a security risk to the  
13           network server upon receipt of the request;

14           formulate a descriptor corresponding to the resource;

15           compare the formulated descriptor with a cached descriptor,  
16           the cached descriptor corresponding to the resource and formulated  
17           when the resource is initially requested;

18           determine that the resource is not a security risk if the  
19           formulated descriptor and the cached descriptor are equivalent;

20           if the formulated descriptor and the cached descriptor are not  
21           equivalent, formulate a second descriptor corresponding to an  
22           original resource maintained on a file server remotely located from  
23           the network server, the resource being replicated from the original  
24           resource;

1                   compare the formulated descriptor with the second descriptor;  
2                   and

3                   determine that the resource is not a security risk if the  
4                   formulated descriptor and the second descriptor are equivalent.

5  
6       **26. (original)** A network server as recited in claim 25, wherein the  
7 request designates a resource locator having a resource path, the resource path  
8 identifying a location of the resource, and wherein the validation component  
9 determines that the request is not a security risk if the resource path does not  
10 exceed a maximum number of characters.

11  
12     **27. (previously presented)** A network server as recited in claim 25,  
13 wherein the request designates a resource locator having a plurality of arguments,  
14 and wherein the validation component determines that the request is not a security  
15 risk if individual arguments do not exceed a maximum number of characters.

16  
17     **28. (original)** A network server as recited in claim 25, wherein the  
18 request designates a resource locator having a resource identifier, and wherein the  
19 validation component determines that the request is not a security risk if the  
20 resource identifier has a valid file extension.

1           **29. (previously presented)** A network server as recited in claim 25,  
2 wherein:

3           the request designates a resource locator having a resource path and one or  
4 more arguments, the resource path identifying a location of the resource and the  
5 resource path having a resource identifier;

6           the validation component determines that the request is not a security risk  
7 if:

8           the resource path does not exceed a maximum number of characters;  
9           individual arguments do not exceed a maximum number of  
10 characters; and  
11           the resource identifier has a valid file extension.

12  
13           **30-31. (canceled)**  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24  
25

1           **32. (currently amended)** A network server as recited in claim 25,  
2        wherein if the formulated descriptor and the second descriptor are not equivalent,  
3        the integrity verification component:

4               formulates a descriptor corresponding to the resource;  
5               compares the formulated descriptor with a cached descriptor, the cached  
6        descriptor corresponding to the resource and formulated when the resource is  
7        initially requested;  
8               if the formulated descriptor and the cached descriptor are not equivalent,  
9               formulates a second descriptor corresponding to an original resource  
10        maintained on a file server remotely located from the network server, the resource  
11        being replicated from the original resource;  
12               compares the formulated descriptor with the second descriptor;  
13               if the formulated descriptor and the second descriptor are not equivalent,  
14               initiates that the resource stored on the network server be replaced with a  
15        copy of the original resource maintained on the file server; and  
16               initiates that the cached descriptor be replaced with the second descriptor.

17  
18           **33-36. (canceled)**  
19  
20  
21  
22  
23  
24  
25

1           37. (currently amended) One or more computer readable media  
2 containing a security application, comprising:

3           a validation component to determine whether a request for a resource poses  
4 a security risk by determining if a total number of characters defining all of the  
5 arguments of the request exceeds a maximum number of characters; and

6           an integrity verification component to determine whether the resource poses  
7 a security risk, the integrity verification component further configured to:

8                 formulate a descriptor corresponding to the resource when the  
9 security application receives the request;

10                 compare the formulated descriptor with a cached descriptor, the  
11 cached descriptor corresponding to the resource and formulated when the  
12 resource is initially requested;

13                 if the formulated descriptor and the cached descriptor are not  
14 equivalent, formulate a second descriptor corresponding to an original  
15 resource remotely located, the resource being replicated from the original  
16 resource;

17                 compare the formulated descriptor with the second descriptor; and  
18                 determine that the resource is not a security risk if the formulated  
19 descriptor and the second descriptor are equivalent.

1           **38. (original)** Computer readable media as recited in claim 37,  
2 wherein the request designates a resource locator having a resource path, the  
3 resource path identifying a location of the resource, and wherein the validation  
4 component determines that the request is not a security risk if the resource path  
5 does not exceed a maximum number of characters.

6

7           **39. (previously presented)** Computer readable media as recited in  
8 claim 37, wherein the request designates a resource locator having a plurality of  
9 arguments, and wherein the validation component determines that the request is  
10 not a security risk if individual arguments do not exceed a maximum number of  
11 characters.

12

13           **40. (original)** Computer readable media as recited in claim 37,  
14 wherein the request designates a resource locator having a resource identifier, and  
15 wherein the validation component determines that the request is not a security risk  
16 if the resource identifier has a valid file extension.

1           **41. (previously presented)** Computer readable media as recited in  
2 claim 37, wherein:

3           the request designates a resource locator having a resource path and one or  
4 more arguments, the resource path identifying a location of the resource and the  
5 resource path having a resource identifier;

6           the validation component determines that the request is not a security risk  
7 if:

8           the resource path does not exceed a maximum number of characters;  
9           individual arguments do not exceed a maximum number of  
10 characters; and  
11           the resource identifier has a valid file extension.

12  
13           **42-43. (canceled)**

1           **44. (currently amended)** Computer readable media as recited in  
2 claim 37, wherein if the formulated descriptor and the second descriptor are not  
3 equivalent, the integrity verification component:

4           formulates a descriptor corresponding to the resource when the security  
5 application receives the request;

6           compares the formulated descriptor with a cached descriptor, the cached  
7 descriptor corresponding to the resource and formulated when the resource is  
8 initially requested;

9           if the formulated descriptor and the cached descriptor are not equivalent,  
10 formulates a second descriptor corresponding to an original resource remotely  
11 located, the resource being replicated from the original resource;

12           compares the formulated descriptor with the second descriptor;

13           if the formulated descriptor and the second descriptor are not equivalent,

14           initiates that the resource be replaced with a copy of the original resource;

15 and

16           initiates that the cached descriptor be replaced with the second descriptor.

- 1           **45. (previously presented)** A method, comprising:  
2           receiving a request for a replica resource stored on a computing device, the  
3           request designating a resource locator having a resource path identifying a location  
4           of the replica resource;  
5           formulating a descriptor corresponding to the replica resource;  
6           comparing the formulated descriptor with a cached descriptor  
7           corresponding to an original resource stored on a second computing device  
8           remotely located from the computing device, the replica resource being replicated  
9           from the original resource;  
10          determining that the replica resource does not pose a security risk if the  
11          formulated descriptor and the cached descriptor are equivalent;  
12          if the formulated descriptor and the cached descriptor are not equivalent,  
13          formulating a second descriptor corresponding to the original resource;  
14          comparing the formulated descriptor with the second descriptor; and  
15          determining that the replica resource does not pose a security risk if the  
16          formulated descriptor and the second descriptor are equivalent.

17  
18           **46. (original)** A method as recited in claim 45, further comprising  
19          allowing the request if said determining that the replica resource does not pose a  
20          security risk to the computing device.

21  
22           **47. (original)** A method as recited in claim 45, further comprising  
23          redirecting the request to indicate that the replica resource is not available if  
24          determining that the replica resource poses a security risk to the computing device.

1           **48. (original)** A method as recited in claim 45, further comprising  
2 replacing the cached descriptor with the second descriptor if the formulated  
3 descriptor and the second descriptor are equivalent.  
4

5  
6           **49. (original)** A method as recited in claim 45, further comprising  
7 replacing the replica resource with a copy of the original resource if the  
8 formulated descriptor and the cached descriptor are not equivalent, and if the  
9 formulated descriptor and the second descriptor are not equivalent.

10  
11          **50. (original)** A method as recited in claim 45, further comprising  
12 replacing the cached descriptor with the second descriptor if the formulated  
13 descriptor and the cached descriptor are not equivalent, and if the formulated  
14 descriptor and the second descriptor are not equivalent.

15  
16          **51. (original)** A method as recited in claim 45, further comprising  
17 formulating the cached descriptor when the original resource is replicated to create  
18 the replica resource.

19  
20          **52. (original)** A method as recited in claim 45, further comprising  
21 formulating the cached descriptor when the replica resource is initially requested.

22  
23          **53. (original)** A method as recited in claim 45, further comprising  
24 determining whether the request will pose a security risk.

1           **54. (original)** A method as recited in claim 45, further comprising:

2           determining whether the request will pose a security risk; and

3           redirecting the request to indicate that the replica resource is not available if

4           determining that the request poses a security risk to the computing device.

5  
6           **55. (previously presented)** A method as recited in claim 45, further  
7           comprising determining that the request does not pose a security risk if the  
8           resource path does not exceed a maximum number of characters.

9  
10          **56. (previously presented)** A method as recited in claim 45, wherein  
11       the request further designates the resource locator having a plurality of arguments,  
12       and the method further comprising determining that the request does not pose a  
13       security risk if individual arguments do not exceed a maximum number of  
14       characters, and if a total number of characters defining all of the arguments do not  
15       exceed a maximum number of characters.

16  
17          **57. (previously presented)** A method as recited in claim 45, wherein  
18       the request further designates the resource locator having a resource identifier, and  
19       the method further comprising determining that the request does not pose a  
20       security risk if the resource identifier has a valid file extension.

1           **58. (previously presented)** A method as recited in claim 45,  
2 wherein:

3                 the request further designates the resource locator having a resource path  
4 and one or more arguments, the resource path identifying a location of the replica  
5 resource and the resource path having a resource identifier;

6                 the method further comprising determining that the request does not pose a  
7 security risk if:

8                         the resource path does not exceed a maximum number of characters;

9                         individual arguments do not exceed a maximum number of  
10 characters;

11                         a total number of characters defining all of the arguments do not  
12 exceed a maximum number of characters; and

13                         the resource identifier has a valid file extension.

14  
15           **59. (original)** A computer-readable medium comprising computer  
16 executable instructions that, when executed, direct a computing system to perform  
17 the method of claim 45.

18  
19           **60. (original)** A computer-readable medium comprising computer  
20 executable instructions that, when executed, direct a computing system to perform  
21 the method of claim 58.

1           **61. (currently amended)**       A method, comprising:  
2           receiving a request for a resource;  
3           implementing security policies to prevent unauthorized access to the  
4           resource;  
5           determining whether the request will pose a security risk by determining if  
6           a total number of characters defining all of the arguments of the request exceeds a  
7           maximum number of characters; and  
8           determining whether the resource will pose a security risk if allowing the  
9           request;

10           formulating a descriptor corresponding to the resource;

11           comparing the formulated descriptor with a cached descriptor  
12           corresponding to the resource and formulated when the resource is initially  
13           requested;

14           determining that the resource does not pose a security risk if the formulated  
15           descriptor and the cached descriptor are equivalent;

16           if the formulated descriptor and the cached descriptor are not equivalent,  
17           formulating a second descriptor corresponding to an original resource remotely  
18           located, the resource replicated from the original source;

19           comparing the formulated descriptor with the second descriptor; and

20           determining that the resource does not pose a security risk if the formulated  
21           descriptor and the second descriptor are equivalent.

1           **62. (original)** A method as recited in claim 61, further comprising  
2         allowing the request for the resource if determining that the request does not pose  
3         a security risk and if determining that the resource does not pose a security risk.

4

5           **63. (original)** A method as recited in claim 61, wherein the request  
6         designates a resource locator having a resource path, the resource path identifying  
7         a location of the resource, and the method further comprising determining that the  
8         request does not pose a security risk if the resource path does not exceed a  
9         maximum number of characters.

10

11          **64. (previously presented)** A method as recited in claim 61, wherein  
12         the request designates a resource locator having a plurality of arguments, and the  
13         method further comprising determining that the request does not pose a security  
14         risk if individual arguments do not exceed a maximum number of characters.

15

16          **65. (original)** A method as recited in claim 61, wherein the request  
17         designates a resource locator having a resource identifier, and the method further  
18         comprising determining that the request does not pose a security risk if the  
19         resource identifier has a valid file extension.

20

21          **66-67. (canceled)**

22

23

24

25

1           **68. (currently amended)** A method as recited in claim 61, further  
2 comprising:

3           formulating a descriptor corresponding to the resource;  
4           comparing the formulated descriptor with a cached descriptor  
5 corresponding to the resource and formulated when the resource is initially  
6 requested;

7           determining that the resource does not pose a security risk if the formulated  
8 descriptor and the cached descriptor are equivalent;

9           if the formulated descriptor and the cached descriptor are not equivalent,  
10 formulating a second descriptor corresponding to an original resource remotely  
11 located, the resource replicated from the original resource;

12           comparing the formulated descriptor with the second descriptor; and  
13           determining that the resource does not pose a security risk if the formulated  
14 descriptor and the second descriptor are equivalent;

15           if the formulated descriptor and the second descriptor are not equivalent,  
16 replacing the resource with a copy of the original resource and replacing the  
17 cached descriptor with the second descriptor.

18  
19           **69. (original)** A computer-readable medium comprising computer  
20 executable instructions that, when executed, direct a computing system to perform  
21 the method of claim 61.

1           **70. (original)** A computer-readable medium comprising computer  
2 executable instructions that, when executed, direct a computing system to perform  
3 the method of claim 68.

4           **71-75. (canceled)**

5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24  
25